## Davidson County Natality Report 2002



Released August 2004

# Davidson County Natality Report 2002

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#### Davidson County Natality Report, 2002

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## Selected Highlights: 2002 Natality for Davidson County

#### **Births and Fertility Rates**

In 2002, there were 8,778 births to Davidson County residents with a resulting fertility rate of 63.6 babies born per 1,000 females aged 15-44 years. The white fertility rate in 2002 was 61.0, compared to 64.6 for blacks, and 100.2 for females of other races. Females aged 15-19 had a fertility rate of 55.6, while the fertility rate for females aged 10-17 and 10-19 was 12.9 and 29.6 respectively.

#### Marital Status

In 2002, 40.7% of all live births were to unmarried mothers. Sixty-eight percent of black mothers, 28.8% of white mothers, and 31.6% of mothers of other races were not married at the time of delivery.

#### **Risk Factors During Pregnancy**

In 2002, 10.6% of women giving birth reported smoking during pregnancy. A higher percentage of women aged 15-19 (13.7%) smoked during pregnancy than the general population of pregnant women. A much higher percentage of white birth mothers reported smoking during pregnancy than did black or other race mothers. The respective percentages were 12.4%, 8.5%, and 2.4%. White mothers aged 15-19 had the highest percentage of smokers (20.7%), while the percentage of black teens who smoked during pregnancy was much smaller (5.6%). Less than 1% of all birth mothers reported alcohol consumption during pregnancy.

#### **Prenatal Care**

During the year 2002, 84.4% of women with live births started prenatal care during the first trimester of pregnancy. A larger percentage of white women (86.7%) received first trimester care than black women (80.9%), or women of other races (77.1%). Teen mothers aged 10-19 have the lowest proportion of early prenatal care initiation (71.9%). Among this age group, approximately the same proportion of white females (72.4%) and black females (72.7%) received prenatal care in the first trimester, compared to 50.0% for females of other races.

#### **Infant Health Characteristics**

During the year 2002, 9.6% of babies born in Davidson County were born prematurely (less than 37 weeks of gestation). When examined by race, 8.6% of white babies born that year were premature compared to 12.2% of black babies, and 7.9% of babies of other races. Similarly, 9.1% of all live births were low birth weight (less than 2,500 grams). Of those, 7.0% of white, 13.7% of blacks, and 8.8% of other races were born low birth weight.

#### **Comparison with National Objectives**

Davidson County misses the Healthy People 2010 targets for both the percent of women and teen women aged 10-19 entering prenatal care in the first trimester. Additionally, Davidson County falls short of the national objectives for both premature and low birth weight births.

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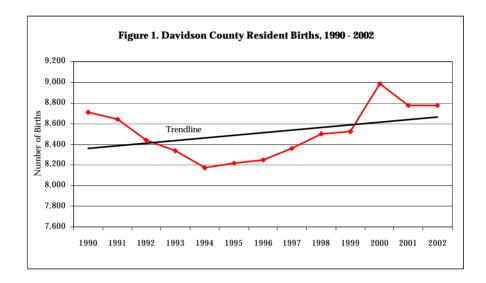
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#### Davidson County Natality Report, 2002

#### Births

There were 8,778 births in Davidson County in 2002. This number represents a less than 1% increase over the previous year, but is 2% less than the number of births in 2000 (8,981). Figure 1 depicts the number of births in Davidson County since 1990. Clearly, the number of births declined between 1990 and 1994, with the number of births dropping an average of 1.6% each year. The number of births then increased from 1994 to 2000, followed by a subsequent drop in 2001.

The trend in number of births parallels that of the United States which saw decreasing births from 1990 to 1997 followed by gradual increases until the year 2000. In 2001 and 2002, the number of births again began to decrease slightly.<sup>1</sup>



#### **Fertility Rates**

Fertility is defined as the birth rate of a community during a specific year. It measures the ratio between the number of live births in the community during a specified time period and the number of females of childbearing age in the population. It is important to note that fetal deaths and stillbirths are not counted as live births and are therefore, excluded from the calculation of fertility rates. The fertility rate is calculated by dividing the number of live births in a population by the number of women of childbearing age and multiplying the result by 1,000.

The fertility rate of a population is believed to be influenced by a multitude of behavioral and biological factors, including exposure to contraception and intercourse, and other factors that impact pregnancy.<sup>3</sup> The degree of fertility in a community is an important public health issue. Proper planning for future population growth ensures continuing access to public services and healthcare. On the other hand, uncontrolled growth can negatively impact economic and environmental health, thereby leading to negative effects on a population's physical health.<sup>4</sup>

#### **Births to Females Aged 15-44**

The general fertility rate for all races combined for 2002 was 63.6 babies born per 1,000 females aged 15 - 44.

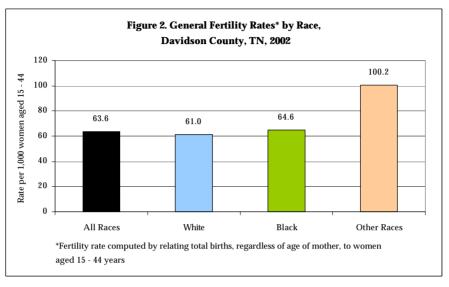
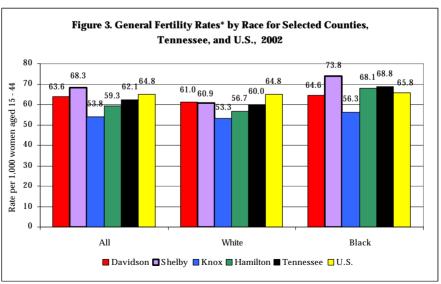


Figure 2 depicts fertility rates by race for the year 2002. Blacks had a slighter higher rate than whites or all races combined. Females of other races had a birth rate much higher than any of the previous categories; though the actual number of births was much lower (532 births).

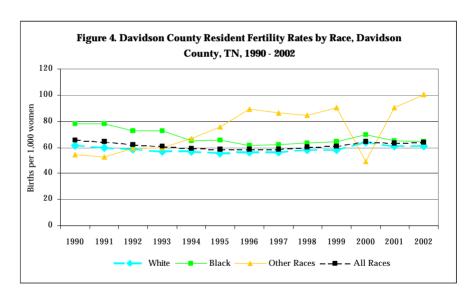


<sup>\*</sup>Fertility rate computed by relating total births, regardless of age of mother, to women aged 15 - 44 years

Comparing Davidson County's fertility rates with that of three other metropolitan counties in Tennessee, namely Hamilton, Knox, and Shelby Counties, Tennessee, and the U.S. yielded some important observations (Figure 3). All rates discussed are per 1,000 females aged 15-44. The fertility rate in Davidson County (63.6) was higher than that of Hamilton County (59.3), Knox County (53.8), and Tennessee (62.1), but was lower than both the U.S. (64.8) and Shelby County (68.3). Knox County had the lowest fertility rate of 53.8 births per 1,000 females aged 15-44.

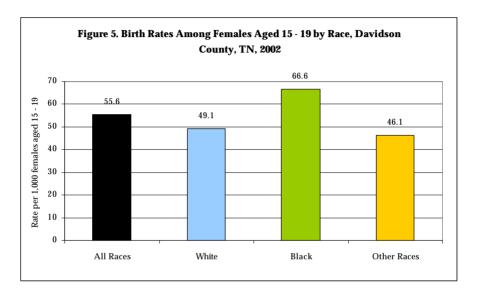
Examining the differences in fertility rates by race indicates that Knox County had the lowest fertility rate for whites (53.3). All the counties being compared, as well as Tennessee, had fertility rates for whites that were lower than the U.S. rate (64.8). A different picture emerged for blacks, however. Knox County had the lowest fertility rate (56.3). Davidson County had a fertility rate for blacks (64.6) that was lower than both the Tennessee rate (68.8) and the rate for the U.S. (65.8). Shelby County had the highest black fertility rate (73.8) of all the geographical areas compared.

Figure 4 depicts the fertility rate in Davidson County for 1990-2002, overall and grouped by race. On average, the birth rate in Davidson County varied only slightly throughout the past decade. The rates for blacks were consistently higher than the overall rate, while the rates for whites were consistently lower. Although the rate for women of other races appears to have both steep inclines and declines, this is most likely attributable to the effect of small numbers and unreliable fertility estimates.



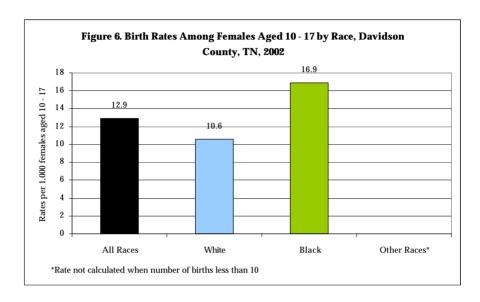
#### **Births to Females Aged 15-19**

In the year 2002, there were approximately 56 babies born for every 1,000 females aged 15-19 in Davidson County (Figure 5). There was a large difference between the number of births to white females aged 15-19 compared to black females of the same age for the year 2002. For white females, there were approximately 49 babies born per 1,000, compared to approximately 67 babies born to black females of the same age group. Those of other races experienced the lowest birth rate, with approximately 46 babies born per 1,000 females aged 15-19.



#### **Births to Females Aged 10-17**

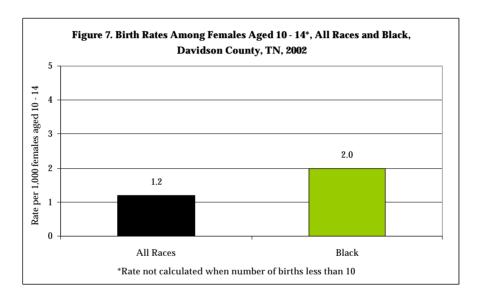
In the year 2002, there were approximately 13 babies born for every 1,000 females aged 10-17 in Davidson County (Figure 6). There was a large difference between the number of births to white females aged 10-17 compared to black females of the same age for the year 2002. For white females, there were approximately 11 babies born per 1,000, compared to approximately 17 babies per 1,000 born to black females of the same age group. Those of other races experienced the lowest birth rate with the number of births for this group being less than 10.



#### **Births to Females Aged 10-14**

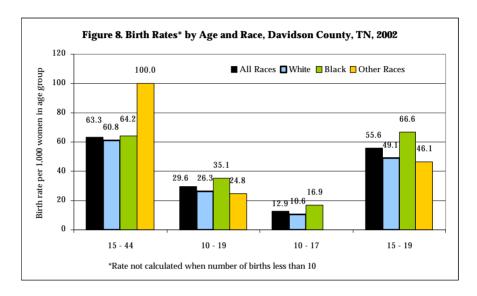
Although adolescent females aged 10-14 contribute relatively few births to the overall adolescent birth rate, the consequences of pregnancy for this age group are likely to be more severe than in older adolescent females. A female in this age group is less developed cognitively and biologically than her older adolescent counterpart. In addition, a girl who becomes pregnant at this age is more likely to bear more children while still in her teens than older adolescent females.

In Davidson County, there was approximately 1 baby born per 1,000 females aged 10-14 in the year 2002 (Figure 7). There were so few babies born to white females and females of other races in this age group that they are excluded from further analysis. Black females in this age range experienced a higher birth rate than the overall rate with 2 babies per 1,000 females aged 10-14. Both Davidson County and black rates were higher than the birth rate for females aged 10-14 in the United States (0.7).<sup>1</sup>



#### **Births to Females Aged 10-19**

Examining adolescent births as an entire group yielded results similar to those noted previously. In Davidson County, there were nearly 30 births per 1,000 females aged 10-19 during the year 2002. This rate was not evenly distributed across the races, as is illustrated in Figure 8. Females of other races experienced the lowest birth rate with approximately 25 babies born per 1,000 females aged 10-19. Whites had a rate of approximately 26 per 1,000 females, and blacks had the greatest number of births yielding a rate of approximately 35 babies per 1,000 females aged 10-19.



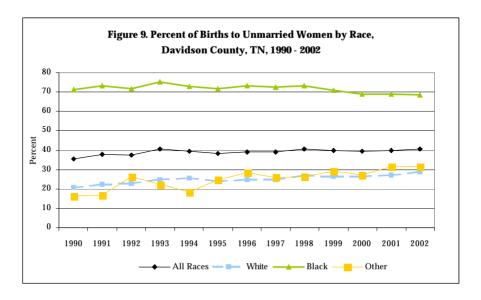
#### **Births to Unmarried Females**

Marital status has long been recognized as being associated with pregnancy outcome most likely because babies of unmarried mothers tend to be of a lower birth weight<sup>7</sup> and at a higher risk of infant mortality than babies of married mothers.<sup>8</sup> For example, unmarried females are less likely to obtain prenatal care in the first trimester of pregnancy than married females.<sup>9</sup>

It is important to note, however, that it is unlikely that legal married status causes any of the aforementioned outcomes. Marital status is most likely a surrogate marker for other unmeasurable social and economic risk factors.

In the year 2002, 40.7% of all live births were to unmarried mothers. (Refer to Table in appendix.) Black females had the highest percentage by far, with just over 68% of live births occurring to unmarried mothers. White females and females of other races had roughly the same percentage with 28.8% and 31.6% of live births occurring to unmarried women respectively.

Percentages of live births to unmarried females have been remarkably stable since 1990 (Figure 9). Black percentages of live births to unmarried females seem to be stable at approximately 70%, while percentages for Davidson County as a whole are approximately 40%. Percentages of live births to unmarried females for whites and females of other races have remained nearly equivalent.

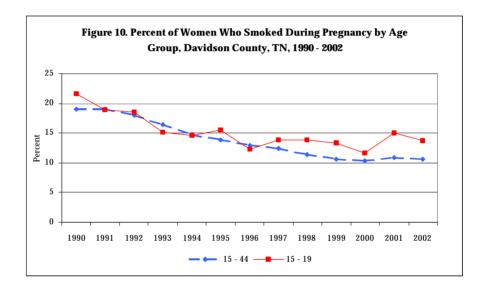


#### **Risk Factors During Pregnancy**

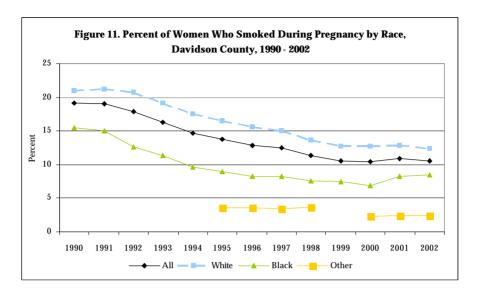
#### **Tobacco Use During Pregnancy**

Hospital representatives interview women who have given birth to obtain information required for the birth certificate. Among the questions asked are "Did you use tobacco during your pregnancy?" In 2002, 10.6% of women giving birth indicated they had smoked at some point during their pregnancy.

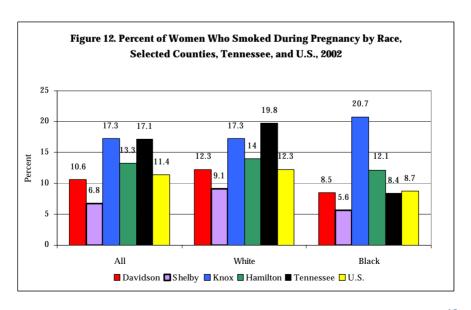
A higher percentage of women aged 15-19 (13.7%) smoked during pregnancy than the general population of pregnant women. As indicated in Figure 10, the prevalence of reported smoking during pregnancy has decreased since 1990. Despite this improvement, the percentage of women aged 15-19 that reported smoking during pregnancy has been consistently higher than the general population since 1997.



There was a marked difference in the percentage of women who smoked during pregnancy by race. A much higher percentage of white birth mothers indicated they smoked during pregnancy than did black or other race mothers. The respective percentages in 2002 were 12.4%, 8.5%, and 2.4%. White teens aged 15-19 had the highest percentage of smokers (20.7%) of all categories while the percentage of black teens who smoked during pregnancy was much smaller (5.6%). Percentages of smoking have been declining for whites and blacks during the 1990's (Figure 11). The number of smokers among birth mothers of other races was too small to calculate a stable rate.



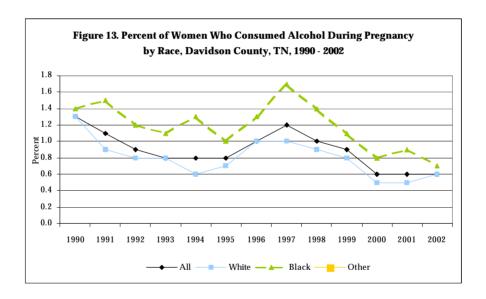
Comparing the percentage of women who smoked during pregnancy in Davidson County with the percentages of three other metropolitan counties in Tennessee, namely Hamilton, Knox, and Shelby Counties, Tennessee, and the U.S. yielded some important observations (Figure 12). Knox County had the highest percentage of women who smoked during pregnancy (17.3%) and Shelby County had the lowest (6.8%) of all geographic areas compared. Davidson County (10.6%) had a lower percentage than Hamilton County (13.3%), Tennessee (17.1%), and the U.S (11.4%).



Examining the differences in smoking prevalence by race indicates that Shelby County had the lowest percentage for whites (9.1%). All the counties being compared, as well as the U.S, had smoking percentages for whites lower than the Tennessee prevalence (19.8%). A different picture emerged for blacks, however. Shelby County, again, had the lowest prevalence (5.6%). Davidson County had a prevalence for blacks (8.5%) that is higher than the Tennessee percentage (8.4%) and lower than the percentage for the U.S. (8.7%). Knox County had the highest percentage of blacks smoking during pregnancy (20.7%).

#### **Alcohol use During Pregnancy**

Birth mothers are asked if they consumed alcohol during their pregnancy for reporting on the birth certificate. In 2002, 0.65% of all birth mothers indicated that they had consumed alcohol while pregnant. As indicated in Figure 13, there has been a slight decrease in the amount of alcohol consumption during pregnancy since 1990, excluding the years 1996 and 1997 which saw increases. Similarly, it appears that blacks have a slightly higher percentage of alcohol use while pregnant than whites. It is important to note, however, that the difference is slight. There are not enough data available to calculate percentages for women of other races.



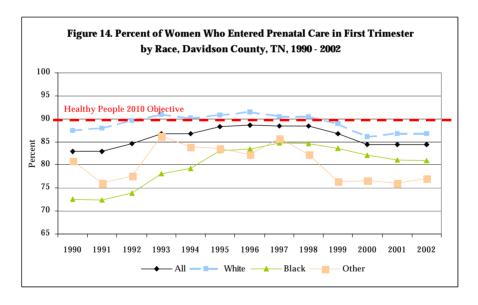
#### **Prenatal Care**

#### First trimester care

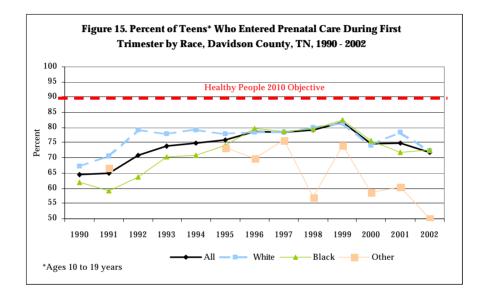
Prenatal care forms the cornerstone of services offered to pregnant females, and includes three components: risk assessment, medical treatment, and health education. Prenatal care utilization is measured by the proportion of women who began receiving care during the first three months of pregnancy.

In 2002, 84.4% of women with live births started prenatal care during the first trimester of pregnancy. In Davidson County, white females had the highest percentage of first trimester care with 86.7%, and black females were not far behind with 80.9%. Women of other races had the lowest percentage of early prenatal care utilization with 77.1%. All of these percentages fall below the Healthy People 2010 Objective 16.6, which states that 90% of all pregnant women should be seeking and receiving prenatal care during the first three months of pregnancy.

Although overall percentages of early prenatal care use have improved through time (Figure 14), the gains are not evenly distributed, nor are they striking. Using the Healthy People 2010 Objective of 90% as the gold-standard, it is clear that while white mothers met this goal during the mid-1990's, the trend was not stable. As of 2002, Davidson County as a whole was 6.2% below the national goal. Similarly, the proportion of white mothers utilizing prenatal care was 3.3% below the goal, black mothers were 9.1% below the goal, and mothers of other races were 12.9% below the goal.



If we examine the data for mothers aged 10-19, the picture is less encouraging (Figure 15). Teen mothers are at risk for poor perinatal outcomes. Early prenatal care can provide these young mothers with nutritional counseling, STD screens, smoking cessation programs, and other services likely to improve the health of the mother and the child. In 2002, fewer of these teen mothers received early care compared to pregnant females in Davidson County as a whole. The percentages of teen mothers who received first trimester prenatal care was 71.9%, a percentage considerably lower than the percentage of pregnant females as a whole (84.4%). Among teen mothers aged 10-19, approximately the same proportion of white females (72.4%) and black females (72.7%) received prenatal care in the first trimester. Only 50.0% of females aged 10-19 of other races received first trimester prenatal care.



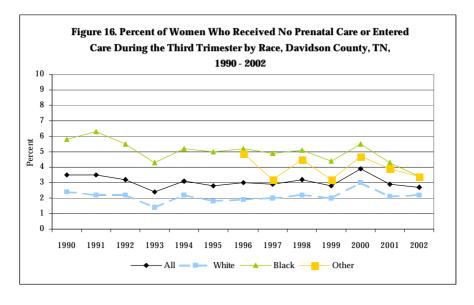
There had been a slight, but steady increase in the percentage of teen females entering first trimester care until 1999, when the proportions began to decline. Using the Healthy People 2010 Objective of 90% as the gold-standard, it is clear that no group of teen mothers has achieved the goal. As of 2002, teens in Davidson County as a whole were 20.1% below the national goal. Similarly, the proportion of white mothers utilizing prenatal care was nearly 19.5% below the goal, black mothers were 19.2% below the goal, and mothers of other races were approximately 44.4% below the goal.

#### Late or no prenatal care

In addition to recording the number of females entering prenatal care during the first trimester of pregnancy, Davidson County also tracks the number of females who receive late or no prenatal care. Late prenatal care is defined as care initiated in the third trimester of pregnancy. Late or no prenatal care prevents early identification of mothers at high risk for poor perinatal outcomes such as preterm delivery, low birth weight, and congenital defects. Lack of early and adequate prenatal care also reduces the number of opportunities for maternal education on a wide range of topics concerning the health of both the mother and the child. Educational topics might include information on future pregnancy prevention, the prevention of birth defects, general nutrition, breastfeeding, and the signs and symptoms of preterm labor.

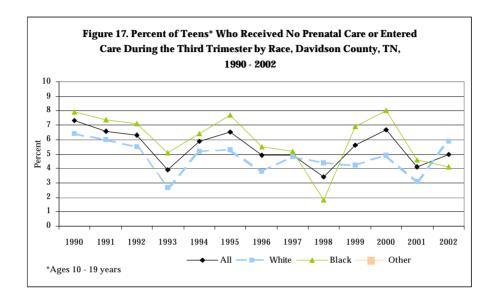
In Davidson County during the year 2002, 2.7% of pregnant females received either late or no prenatal care. Examining the data by race showed that blacks (3.4%) and women of other races (3.4%) both had higher percentages of women receiving either late or no prenatal care than whites (2.2%).

As seen in Figure 16, the numbers of women receiving late or no prenatal care have been decreasing since the year 2000. Both the cause and stability of the trend are unknown. In general, blacks and women of other races have the greatest percentage of females receiving late or no prenatal care. Whites have the lowest percentages of all the comparisons.



The pregnant teen population aged 10-19 had a higher percentage of late or no prenatal care than all pregnant females in Davidson County. Overall, 5.0% of teen mother are either started care during the third trimester of pregnancy, or received no prenatal care. White teens had a higher percentage of not receiving prenatal care (5.9%) compared to black teens (4.1%). The number of teen mothers of other races was too small to calculate a reliable prevalence.

As seen in Figure 17, the number of teens aged 10-19 receiving late or no prenatal care in 2002 was lower than in the year 2000. Both the cause and stability of this trend are unknown. Blacks generally have higher percentages of teens receiving late or no prenatal care; however, the relative ranking is reversed in the years 1998 and 2002.

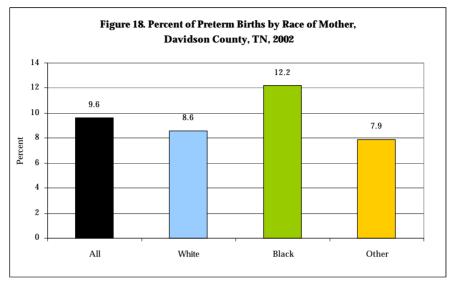


#### **Infant Health Characteristics**

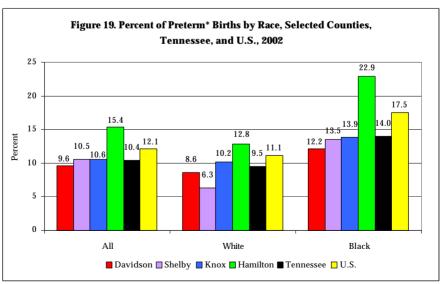
#### **Preterm Birth**

Preterm delivery is defined as the termination of pregnancy before the completion of the 37<sup>th</sup> week of gestation. Preterm birth is a major cause of low birth weight, and combined with low birth weight, is a predominant cause of infant mortality and morbidity.<sup>10</sup> The overall rate of preterm births is gradually increasing nationwide. Research indicates that from 1989 through 1996, there was a 4 percent increase in preterm delivery rates.<sup>11</sup> This phenomenon seems to be evident in industrialized nations around the world.<sup>11</sup> Although the exact causes of preterm birth are unknown, risk factors for preterm birth include low socioeconomic status, previous preterm delivery, smoking, and inadequate weight gain during pregnancy.

During the year 2002, 9.6% of babies born in Davidson County were premature. When examined by race, 8.6% of white babies born that year were premature compared to 12.2% of black babies, and 7.9% of babies of other races. (Figure 18)

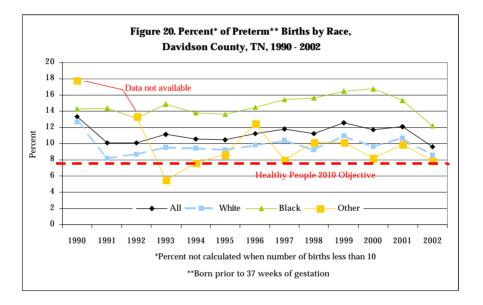


Comparing the percentages of preterm births in Davidson County with those of three other metropolitan counties in Tennessee, namely Hamilton, Knox, and Shelby Counties, Tennessee, and the U.S. yielded some important observations (Figure 19). All percentages discussed are per all live births. Overall, Hamilton County had the highest percentage of preterm births (15.4%). Davidson County (9.6%) had the lowest percentage of preterm births of all areas compared, including Tennessee (10.4%) and the U.S. (12.1%).



Examining the differences in percentage of preterm birth by race revealed a large disparity between whites and blacks. This disparity was evident in all of the areas under comparison. Hamilton County had the highest percentage of white preterm births (12.8%) The percentage of white preterm births in Davidson County (8.6%) was less than the percentages for both Tennessee (9.5%) and the U.S. (11.1%). Shelby County had the lowest percentage of preterm births for whites (6.3%) for all areas compared. For blacks, Hamilton County had the highest percentage of preterm births (22.9%) of all the areas compared. Davidson County had the lowest percentage of preterm births for blacks (12.2%) of all the areas compared.

An examination of preterm births through time can be found in Figure 20. Blacks consistently have the highest percentage of preterm births. From the year 2000 through 2002, however, there appears to be a reduction in the proportion of black live births that are born preterm. In addition, there is a slight decrease in the proportion of preterm births for all races from the previous year.

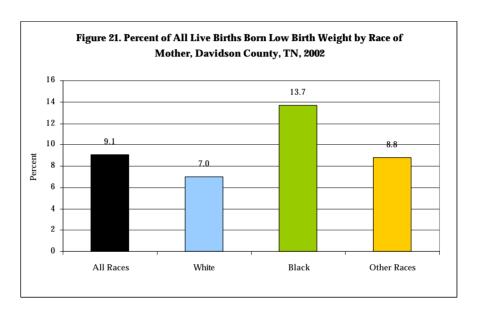


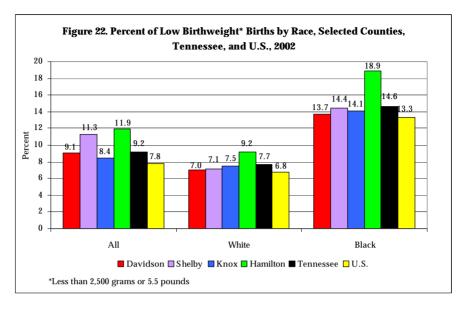
The Healthy People 2010 objective is to reduce the percentage of preterm births to 7.6%. As is indicated in Figure 20, Davidson County falls short of this goal on all accounts. Overall, Davidson County exceeded the 2010 goal by 26%. Whites fell short of the goal by 13%, blacks fell short of the goal by 60.5%, and women of other races fell short of the goal by nearly 4%.

#### **Low Birth Weight**

Low birth weight is defined as a weight at birth of less than 2,500 grams or 5 pounds 8 ounces. Birth weight has a strong association with both mortality and morbidity. Research indicates that a death during the neonatal period is nearly 40 times more likely to occur among low birth weight infants than infants of normal weight.<sup>12</sup> Additionally, children born at low birth weight are at an increased risk of general morbidity and other disorders such as severe mental retardation and neurological problems.<sup>12</sup>

In Davidson County, 9.1% of all live births born during the year 2002 weighed less than 2,500 grams. When stratified by race, 7.0% of whites born that year were low birth weight compared to 13.7% of blacks, and 8.8% of other races. (Figure 21)

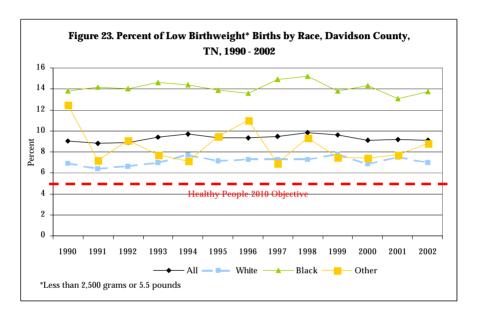




Comparing the percentages of low birth weight births in Davidson County with those of three other metropolitan counties in Tennessee, namely Hamilton, Knox, and Shelby Counties, Tennessee, and the U.S. yielded some important observations (Figure 22). All percentages discussed are per all live births. Overall, Hamilton County had the highest percentage of low birth weight (11.9%), followed closely by Shelby County (11.3%). The percentage of low birth weight babies in Davidson County (9.1%) was nearly equivalent to that of Tennessee (9.2%), but was considerably higher than the U.S. (7.8%). The U.S. had the lowest percentage of low birth weight births of all areas compared.

Examining the differences in percentage of low birth weight births by race revealed a large disparity between whites and blacks. This disparity was evident in all of the areas under comparison. Hamilton County had the highest percentage of low birth weight babies for whites (9.2%). The percentage of white low birth weight births in Davidson County (7.0%) was lower than the percentage for Tennessee (7.7%), but higher than the percentage for the U.S. (6.8%). All areas in Tennessee under examination had percentages higher than the U.S. For blacks, Hamilton County had the highest percentage of low birth weight babies (18.9%) of all the areas compared. The percentage of black low birth weight babies in Davidson County (13.7%) was lower than the percentage for Tennessee (14.6%), but higher than the U.S. percentage (13.3%).

Nationally, there has been little change in the proportion of low birth weight babies over the past few decades. <sup>12</sup> The disparity between whites and blacks has remained constant during the past decade, and the trend in Davidson County mimics the national trend. The percentage of black babies born less than 2,500 grams hovers between 13 and 16 percent. For whites, the proportion is smaller with only 6 to 8 percent of babies being born low birth weight. Overall, between 8 and 10 percent of births in Davidson County each year weigh less than 2,500 grams. The Healthy People 2010 Objective for this indicator is to reduce the percentage of births weighing less than 2,500 grams to 5%. As indicated in Figure 23, there is much work needed in Davidson County to achieve that goal by 2010.



#### References:

- Martin JA, Hamilton Be, Sutton PD, Ventura SJ, Menacker F, Munson ML. Births: Final data for 2002. National vital statistics reports; vol 52 no 10. Hyattsville, Maryland: National Center for Health Statistics. 2003.
- 2. Last JM, ed. A Dictionary of Epidemiology. 2nd ed. New York: Oxford University Press; 1988.
- 3. Young TK. Population Health: Concepts and Methods. New York: Oxford University Press; 1998
- 4. Mausner JS, Kramer S. *Epidemiology: An Introductory Text.* Philadelphia: W.B. Saunders Company; 1985.
- Millstein SG, Petersen AC, Nightingale EO, eds. Promoting the Health of Adolescents: New Directions for the Twenty-first Century. New York: Oxford University Press; 1993.
- Duenhoelter JH, Jimenez JM, Baumann G. Pregnancy performance of patients under fifteen years of age. Obstet Gynecol. 1984;149: 845-847.
- MacDorman MF, Rowley DL, Iyasu S, Kiely JL, Gardner PG, Davis MS. Infant mortality. In: Wilcox LS, Marks JS, eds. From Data to Action: CDC's Public Health Surveillance for Women, Infants, and Children. U.S. Department of Health and Human Services; 1995.
- 8. Bakketeig LS, Hoffman HJ, Oakley ART. Perinatal Mortality. In: Bracken MB, ed. *Perinatal Epidemiology*. New York: Oxford University Press; 1984.
- 9. Kiely JL, Brett KM, Yu S, Rowley DL. Low birth weight and intrauterine growth retardation. In: Wilcox LS, Marks JS, eds. *From Data to Action: CDC's Public Health Surveillance for Women, Infants, and Children*. U.S. Department of Health and Human Services: 1995.
- Blackmore CA, Rowley DL, Kiely JL. Preterm birth. In: Wilcox LS, Marks JS, eds. From Data to Action: CDC's Public Health Surveillance for Women, Infants, and Children. U.S. Department of Health and Human Services; 1995.
- 11. Emissie K, Rhoads GG, Ananth CV, Alexander GR, Kramer MS, Kogan MD, Joseph KS. Trends in preterm birth and neonatal mortality among blacks and whites in the United States from 1989 to 1997. *Am J Epidemiol.* 2001;154:307-15.
- 12. Kiely JL, Brett KM, Yu S, Rowley DL. Low birth weight and intrauterine growth retardation. In: Wilcox LS, Marks JS, eds. *From Data to Action: CDC's Public Health Surveillance for Women, Infants, and Children*. U.S. Department of Health and Human Services; 1995.



#### Davidson County Natality Report, 2002

Table 1. Number of Live Births, General Fertility Rate, and Age-Specific Fertility Rates\* by Race and Age, Davidson County, TN, 1990 - 2002

|      |       | All R   | Races   |       |       | W       | nite    |             |       | Bla     | ıck     |       |       | Otl     | her     |         |
|------|-------|---------|---------|-------|-------|---------|---------|-------------|-------|---------|---------|-------|-------|---------|---------|---------|
| Year | All   | 15 - 44 | 10 - 19 | 10-17 | All   | 15 - 44 | 10 - 19 | 10-17       | All   | 15 - 44 | 10 - 19 | 10-17 | All   | 15 - 44 | 10 - 19 | 10 - 17 |
|      |       |         |         |       |       |         |         | Number      |       |         |         |       |       |         |         |         |
| 2002 | 8,778 | 8,742   | 1,021   | 329   | 5,620 | 5,602   | 529     | 158         | 2,624 | 2,607   | 462     | 165   | 532   | 531     | 30      | 6       |
| 2001 | 8,773 | 8,741   | 1,061   | 351   | 5,678 | 5,663   | 546     | 171         | 2,639 | 2,624   | 477     | 170   | 456   | 454     | 38      | 10      |
| 2000 | 8,981 | 8,946   | 1,147   | 434   | 5,727 | 5,711   | 566     | 184         | 2,767 | 2,748   | 552     | 238   | 487   | 487     | 29      | 12      |
| 1999 | 8,524 | 8,484   | 1,175   | 248   | 5,521 | 5,503   | 601     | 196         | 2,601 | 2,580   | 547     | 221   | 402   | 401     | 27      | 11      |
| 1998 | 8,502 | 8,454   | 1,249   | 487   | 5,597 | 5,576   | 633     | 223         | 2,552 | 2,525   | 595     | 256   | 353   | 353     | 21      | 8       |
| 1997 | 8,359 | 8,332   | 1,181   | 479   | 5,513 | 5,504   | 568     | 199         | 2,497 | 2,480   | 580     | 263   | 349   | 348     | 33      | 17      |
| 1996 | 8,245 | 8,185   | 1,275   | 528   | 5,501 | 5,482   | 608     | 218         | 2,399 | 2,362   | 634     | 292   | 345   | 341     | 33      | 18      |
| 1995 | 8,218 | 8,175   | 1,187   | 495   | 5,438 | 5,428   | 563     | 191         | 2,505 | 2,473   | 609     | 297   | 275   | 274     | 15      | 7       |
| 1994 | 8,171 | 8,116   | 1,253   | 520   | 5,518 | 5,502   | 632     | 231         | 2,429 | 2,393   | 609     | 285   | 224   | 221     | 12      | 4       |
| 1993 | 8,334 | 8,296   | 1,281   | 554   | 5,503 | 5,494   | 603     | 220         | 2,650 | 2,621   | 667     | 332   | 181   | 181     | 11      | 2       |
| 1992 | 8,439 | 8,394   | 1,245   | 536   | 5,714 | 5,703   | 619     | 230         | 2,560 | 2,530   | 607     | 300   | 165   | 161     | 19      | 6       |
| 1991 | 8,645 | 8,612   | 1,337   | 546   | 5,821 | 5,812   | 684     | 240         | 2,686 | 2,662   | 632     | 300   | 138   | 138     | 21      | 6       |
| 1990 | 8,706 | 8,668   | 1,308   | 491   | 5,962 | 5,954   | 672     | 210         | 2,592 | 2,562   | 619     | 272   | 152   | 152     | 17      | 9       |
|      |       |         |         |       |       |         |         | Birthrate** |       |         |         |       |       |         |         |         |
| 2002 | 63.6  | 63.3    | 29.6    | 12.9  | 61.0  | 60.8    | 26.3    | 10.6        | 64.6  | 64.2    | 35.1    | 16.9  | 100.2 | 100.0   | 24.8    | *       |
| 2001 | 63.2  | 63.0    | 30.5    | 13.7  | 61.0  | 60.8    | 26.6    | 11.3        | 65.0  | 64.7    | 36.5    | 17.6  | 90.3  | 89.9    | 31.8    | 11.6    |
| 2000 | 64.4  | 64.1    | 32.7    | 16.9  | 63.7  | 63.5    | 28.7    | 12.8        | 69.6  | 69.1    | 43.7    | 25.6  | 49.3  | 49.3    | 10.5    | 6.0     |
| 1999 | 60.9  | 60.6    | 33.6    | 9.7   | 58.1  | 57.9    | 28.7    | 12.8        | 64.3  | 63.8    | 42.5    | 23.5  | 90.3  | 90.1    | 23.7    | 13.4    |
| 1998 | 60.2  | 59.8    | 35.8    | 19.2  | 57.9  | 57.6    | 30.0    | 14.5        | 63.1  | 62.5    | 46.7    | 27.7  | 84.6  | 84.6    | 19.0    | **      |
| 1997 | 58.8  | 59.0    | 33.9    | 18.9  | 56.2  | 56.1    | 26.7    | 12.8        | 62.3  | 61.9    | 46.3    | 29.0  | 86.6  | 86.4    | 31.4    | 22.4    |
| 1996 | 58.5  | 58.0    | 37.1    | 21.0  | 56.1  | 55.9    | 28.7    | 14.0        | 61.3  | 60.4    | 52.0    | 33.0  | 89.5  | 88.5    | 32.9    | 24.6    |
| 1995 | 58.7  | 58.4    | 35.1    | 19.9  | 55.5  | 55.4    | 26.8    | 12.3        | 65.5  | 64.7    | 51.5    | 34.4  | 75.5  | 75.3    | 15.6    | **      |
| 1994 | 59.0  | 58.6    | 37.7    | 21.1  | 56.5  | 56.3    | 30.4    | 15.0        | 65.0  | 64.0    | 52.7    | 33.5  | 67.0  | 66.1    | 13.6    | **      |
| 1993 | 61.0  | 60.7    | 39.3    | 22.9  | 56.6  | 56.5    | 29.3    | 14.4        | 72.9  | 72.1    | 59.3    | 40.0  | 59.6  | 59.6    | 13.4    | **      |
| 1992 | 62.3  | 62.0    | 38.9    | 22.3  | 58.7  | 58.6    | 30.4    | 15.2        | 72.5  | 71.6    | 55.8    | 37.3  | 59.3  | 57.9    | 25.1    | **      |
| 1991 | 64.3  | 64.0    | 42.3    | 23.4  | 59.7  | 59.6    | 33.7    | 15.9        | 78.1  | 77.4    | 59.6    | 38.5  | 52.6  | 52.6    | 29.6    | **      |
| 1990 | 65.5  | 65.2    | 40.9    | 21.0  | 61.6  | 61.5    | 32.5    | 13.7        | 77.8  | 76.9    | 59.1    | 35.9  | 54.5  | 54.5    | 21.8    | **      |

<sup>\*</sup>Live births per 1,000 women in age group

<sup>\*\*</sup>Rates are not calculated when the number of births is less than 10

Table 2. Teen and Adolescent Live Births and Age-Specific Fertility Rates\*by Race and Age, Davidson County, TN, 1990 - 2002

|      |       | All F |         |         | IN LIVE DI | Wł    |         | <u> </u>    | J       | Bla     |         |         | ty, 111, 10 | Otl     | her     |         |
|------|-------|-------|---------|---------|------------|-------|---------|-------------|---------|---------|---------|---------|-------------|---------|---------|---------|
| Year | 10-19 | 10-17 | 10 - 14 | 15 - 19 | 10 - 19    | 10-17 | 10 - 14 | 15 - 19     | 10 - 19 | 10 - 17 | 10 - 14 | 15 - 19 | 10 - 19     | 10 - 17 | 10 - 14 | 15 - 19 |
|      |       |       |         |         |            |       |         | Number      |         |         |         |         |             |         |         |         |
| 2002 | 1,021 | 329   | 19      | 1,002   | 529        | 158   | 6       | 523         | 462     | 165     | 13      | 449     | 30          | 6       | 0       | 30      |
| 2001 | 1,061 | 351   | 18      | 1,043   | 546        | 171   | 4       | 542         | 477     | 170     | 13      | 464     | 38          | 10      | 1       | 37      |
| 2000 | 1,147 | 434   | 24      | 1,123   | 566        | 184   | 7       | 559         | 552     | 238     | 17      | 535     | 29          | 12      | 0       | 29      |
| 1999 | 1,175 | 248   | 31      | 1,144   | 601        | 196   | 11      | 590         | 547     | 221     | 20      | 527     | 27          | 11      | 0       | 27      |
| 1998 | 1,249 | 487   | 36      | 1,213   | 633        | 223   | 13      | 620         | 595     | 256     | 23      | 572     | 21          | 8       | 0       | 21      |
| 1997 | 1,181 | 479   | 19      | 1,162   | 568        | 199   | 4       | 564         | 580     | 263     | 15      | 565     | 33          | 17      | 0       | 33      |
| 1996 | 1,275 | 528   | 49      | 1,226   | 608        | 218   | 12      | 596         | 634     | 292     | 35      | 599     | 33          | 18      | 2       | 31      |
| 1995 | 1,187 | 495   | 38      | 1,149   | 563        | 191   | 6       | 557         | 609     | 297     | 32      | 577     | 15          | 7       | 0       | 15      |
| 1994 | 1,253 | 520   | 44      | 1,209   | 632        | 231   | 9       | 623         | 609     | 285     | 35      | 574     | 12          | 4       | 0       | 12      |
| 1993 | 1,281 | 554   | 35      | 1,246   | 603        | 220   | 7       | 596         | 667     | 332     | 28      | 639     | 11          | 2       | 0       | 11      |
| 1992 | 1,245 | 536   | 42      | 1,203   | 619        | 230   | 10      | 609         | 607     | 300     | 30      | 577     | 19          | 6       | 2       | 17      |
| 1991 | 1,337 | 546   | 32      | 1,305   | 684        | 240   | 8       | 676         | 632     | 300     | 24      | 608     | 21          | 6       | 0       | 21      |
| 1990 | 1,308 | 491   | 33      | 1,275   | 672        | 210   | 5       | 667         | 619     | 272     | 28      | 591     | 17          | 9       | 0       | 17      |
|      |       |       |         |         |            |       |         | Birthrate** |         |         |         |         |             |         |         |         |
| 2002 | 29.6  | 12.9  | 1.2     | 55.6    | 26.3       | 10.6  | **      | 49.1        | 35.1    | 16.9    | 2.0     | 66.6    | 24.8        | **      | **      | 46.1    |
| 2001 | 30.5  | 13.7  | 1.1     | 56.4    | 26.6       | 11.3  | **      | 49.1        | 36.5    | 17.6    | 2.1     | 68.4    | 31.8        | 11.6    | **      | 56.2    |
| 2000 | 32.7  | 16.9  | 1.5     | 59.2    | 28.7       | 12.8  | **      | 51.9        | 43.7    | 25.6    | 2.8     | 80.2    | 10.5        | 6.0     | **      | 19.2    |
| 1999 | 33.6  | 9.7   | 1.9     | 60.1    | 28.7       | 12.8  | 1.2     | 51.3        | 42.5    | 23.5    | 3.4     | 76.2    | 23.7        | 13.4    | **      | 42.7    |
| 1998 | 35.8  | 19.2  | 2.3     | 63.2    | 30.0       | 14.5  | 1.4     | 53.4        | 46.7    | 27.7    | 4.0     | 81.8    | 19.0        | **      | **      | 34.6    |
| 1997 | 33.9  | 18.9  | 1.2     | 60.8    | 26.7       | 12.8  | **      | 48.5        | 46.3    | 29.0    | 2.7     | 81.5    | 31.4        | 22.4    | **      | 57.3    |
| 1996 | 37.1  | 21.0  | 3.1     | 65.8    | 28.7       | 14.0  | 1.2     | 52.2        | 52.0    | 33.0    | 6.3     | 89.8    | 32.9        | 24.6    | **      | 57.6    |
| 1995 | 35.1  | 19.9  | 2.4     | 63.7    | 26.8       | 12.3  | **      | 49.9        | 51.5    | 34.4    | 5.9     | 90.4    | 15.6        | **      | **      | 29.7    |
| 1994 | 37.7  | 21.1  | 2.8     | 69.2    | 30.4       | 15.0  | **      | 57.0        | 52.7    | 33.5    | 6.4     | 94.3    | 13.6        | **      | **      | 25.7    |
| 1993 | 39.3  | 22.9  | 2.2     | 73.4    | 29.3       | 14.4  | **      | 55.7        | 59.3    | 40.0    | 5.2     | 109.1   | 13.4        | *ok     | *ok     | 25.5    |
| 1992 | 38.9  | 22.3  | 2.7     | 72.2    | 30.4       | 15.2  | 1.0     | 57.6        | 55.8    | 37.3    | 5.8     | 101.9   | 25.1        | *ok     | *ok     | 41.2    |
| 1991 | 42.3  | 23.4  | 2.1     | 78.2    | 33.7       | 15.9  | **      | 63.2        | 59.6    | 38.5    | 4.8     | 108.6   | 29.6        | **      | **      | 53.0    |
| 1990 | 40.9  | 21.0  | 2.2     | 74.0    | 32.5       | 13.7  | **      | 59.8        | 59.1    | 35.9    | 5.8     | 104.8   | 21.8        | **      | **      | 38.6    |

Table 3. Number of Live Births and Crude Birth Rates\* by Race and Age, Davidson County, TN, 1990 - 2002

|      |       | All F   | Races   |         |       | Wh      |         |             |       | Ot      | her     |         |      |         |         |       |
|------|-------|---------|---------|---------|-------|---------|---------|-------------|-------|---------|---------|---------|------|---------|---------|-------|
| Year | All   | 15 - 44 | 10 - 19 | 10 - 17 | All   | 15 - 44 | 10 - 19 | 10 - 17     | All   | 15 - 44 | 10 - 19 | 10 - 17 | All  | 15 - 44 | 10 - 19 | 10-17 |
|      |       |         |         |         |       |         |         | Number      |       |         |         |         |      |         |         |       |
| 2002 | 8,778 | 8,742   | 1,021   | 329     | 5,620 | 5,602   | 529     | 158         | 2,624 | 2,607   | 462     | 165     | 532  | 531     | 30      | 6     |
| 2001 | 8,773 | 8,741   | 1,061   | 351     | 5,678 | 5,663   | 546     | 171         | 2,639 | 2,624   | 477     | 170     | 456  | 454     | 38      | 10    |
| 2000 | 8,981 | 8,946   | 1,147   | 434     | 5,727 | 5,711   | 566     | 184         | 2,767 | 2,748   | 552     | 238     | 487  | 487     | 29      | 12    |
| 1999 | 8,524 | 8,484   | 1,175   | 248     | 5,521 | 5,503   | 601     | 196         | 2,601 | 2,580   | 547     | 221     | 402  | 401     | 27      | 11    |
| 1998 | 8,502 | 8,454   | 1,249   | 487     | 5,597 | 5,576   | 633     | 223         | 2,552 | 2,525   | 595     | 256     | 353  | 353     | 21      | 8     |
| 1997 | 8,359 | 8,332   | 1,181   | 479     | 5,513 | 5,504   | 568     | 199         | 2,497 | 2,480   | 580     | 263     | 349  | 348     | 33      | 17    |
| 1996 | 8,245 | 8,185   | 1,275   | 528     | 5,501 | 5,482   | 608     | 218         | 2,399 | 2,362   | 634     | 292     | 345  | 341     | 33      | 18    |
| 1995 | 8,218 | 8,175   | 1,187   | 495     | 5,438 | 5,428   | 563     | 191         | 2,505 | 2,473   | 609     | 297     | 275  | 274     | 15      | 7     |
| 1994 | 8,171 | 8,116   | 1,253   | 520     | 5,518 | 5,502   | 632     | 231         | 2,429 | 2,393   | 609     | 285     | 224  | 221     | 12      | 4     |
| 1993 | 8,334 | 8,296   | 1,281   | 554     | 5,503 | 5,494   | 603     | 220         | 2,650 | 2,621   | 667     | 332     | 181  | 181     | 11      | 2     |
| 1992 | 8,439 | 8,394   | 1,245   | 536     | 5,714 | 5,703   | 619     | 230         | 2,560 | 2,530   | 607     | 300     | 165  | 161     | 19      | 6     |
| 1991 | 8,645 | 8,612   | 1,337   | 546     | 5,821 | 5,812   | 684     | 240         | 2,686 | 2,662   | 632     | 300     | 138  | 138     | 21      | 6     |
| 1990 | 8,706 | 8,668   | 1,308   | 491     | 5,962 | 5,954   | 672     | 210         | 2,592 | 2,562   | 619     | 272     | 152  | 152     | 17      | 9     |
|      | •     |         |         |         |       |         |         | Birthrate** |       |         |         |         |      |         |         |       |
| 2002 | 15.2  | 31.4    | 14.5    | 6.2     | 13.9  | 29.2    | 12.7    | 5.1         | 16.9  | 34.4    | 17.5    | 8.2     | 27.3 | 48.2    | 12.2    | *     |
| 2001 | 15.3  | 31.3    | 14.9    | 6.6     | 14.0  | 29.4    | 12.8    | 5.5         | 17.1  | 34.7    | 18.2    | 8.5     | 29.1 | 43.3    | 15.7    | 5.8   |
| 2000 | 15.8  | 32.0    | 16.0    | 8.2     | 15.0  | 31.4    | 14.1    | 6.2         | 18.7  | 37.2    | 21.8    | 12.4    | 12.1 | 20.5    | 4.8     | 2.8   |
| 1999 | 15.0  | 30.3    | 16.5    | 4.7     | 13.8  | 28.2    | 13.9    | 6.2         | 17.3  | 34.3    | 21.3    | 11.4    | 24.8 | 42.5    | 11.7    | 6.7   |
| 1998 | 15.0  | 30.1    | 17.6    | 9.3     | 13.9  | 28.3    | 14.6    | 7.1         | 17.2  | 33.7    | 23.5    | 13.5    | 22.8 | 39.6    | 9.4     | **    |
| 1997 | 14.8  | 29.6    | 16.7    | 9.2     | 13.6  | 27.7    | 13.0    | 6.2         | 17.1  | 33.4    | 23.3    | 14.1    | 23.8 | 40.7    | 15.3    | 11.1  |
| 1996 | 14.8  | 29.3    | 18.3    | 10.2    | 13.7  | 27.7    | 14.0    | 6.8         | 16.9  | 32.5    | 26.2    | 16.1    | 24.9 | 42.2    | 16.0    | 12.1  |
| 1995 | 14.9  | 29.6    | 17.3    | 9.7     | 13.6  | 27.5    | 13.1    | 6.0         | 18.0  | 34.9    | 25.9    | 16.8    | 21.5 | 36.4    | 7.7     | **    |
| 1994 | 15.0  | 29.8    | 18.6    | 10.3    | 13.9  | 28.0    | 10.1    | 7.3         | 17.9  | 34.6    | 26.6    | 16.4    | 19.1 | 31.8    | 6.6     | **    |
| 1993 | 15.6  | 30.9    | 19.4    | 11.2    | 14.0  | 28.2    | 14.3    | 7.0         | 20.2  | 39.0    | 30.1    | 19.7    | 17.0 | 28.7    | 6.5     | **    |
| 1992 | 16.1  | 31.6    | 19.2    | 11.1    | 14.7  | 29.3    | 14.8    | 7.4         | 20.2  | 38.9    | 28.3    | 18.4    | 17.0 | 28.2    | 12.2    | **    |
| 1991 | 16.7  | 32.6    | 20.9    | 11.5    | 15.1  | 29.8    | 16.4    | 7.8         | 21.8  | 41.9    | 30.4    | 19.0    | 15.3 | 25.9    | 14.5    | **    |
| 1990 | 17.0  | 33.2    | 20.2    | 10.2    | 15.6  | 30.8    | 15.8    | 6.7         | 21.7  | 41.6    | 30.2    | 17.7    | 15.6 | 26.2    | 10.6    | **    |

<sup>\*</sup>Live births per 1,000 women in age group

<sup>\*\*</sup>Rates are not calculated when the number of births is less than 10

Table 4. Number and Percent of Women with Live Births Who Smoked During Pregnancy by Race and Age,
Davidson County, TN, 1990 - 2002

|      |       |           |         |       | aviusuii C | ounty, III   | , 1000 20 |         |         |       |         |         |
|------|-------|-----------|---------|-------|------------|--------------|-----------|---------|---------|-------|---------|---------|
|      |       | All Races |         |       | White      |              |           | Black   |         |       | Other   |         |
| Year | Total | 15 - 44   | 15 - 19 | Total | 15 - 44    | 15 - 19      | Total     | 15 - 44 | 15 - 19 | Total | 15 - 44 | 15 - 19 |
|      |       |           |         |       |            | Number       |           |         |         |       |         |         |
| 2002 | 931   | 925       | 137     | 696   | 691        | 108          | 222       | 221     | 25      | 13    | 13      | 4       |
| 2001 | 953   | 953       | 156     | 725   | 725        | 118          | 217       | 217     | 36      | 11    | 11      | 2       |
| 2000 | 930   | 929       | 130     | 727   | 727        | 114          | 192       | 191     | 14      | 11    | 11      | 2       |
| 1999 | 906   | 903       | 152     | 702   | 699        | 128          | 196       | 196     | 23      | 8     | 8       | 1       |
| 1998 | 966   | 963       | 168     | 759   | 756        | 143          | 194       | 194     | 21      | 13    | 13      | 4       |
| 1997 | 1,046 | 1,044     | 161     | 828   | 826        | 140          | 206       | 206     | 18      | 12    | 12      | 2       |
| 1996 | 1,064 | 1,064     | 151     | 856   | 856        | 131          | 196       | 196     | 19      | 12    | 12      | 1       |
| 1995 | 1,133 | 1,133     | 178     | 897   | 897        | 160          | 226       | 226     | 18      | 10    | 10      | 0       |
| 1994 | 1,205 | 1,204     | 178     | 967   | 967        | 160          | 232       | 231     | 18      | 6     | 6       | 0       |
| 1993 | 1,360 | 1,359     | 190     | 1,057 | 1,056      | 164          | 302       | 302     | 26      | 1     | 1       | 0       |
| 1992 | 1,514 | 1,510     | 223     | 1,185 | 1,181      | 202          | 322       | 322     | 21      | 7     | 7       | 0       |
| 1991 | 1,645 | 1,645     | 247     | 1,235 | 1,235      | 212          | 403       | 403     | 34      | 7     | 7       | 1       |
| 1990 | 1,660 | 1,659     | 276     | 1,253 | 1,253      | 227          | 402       | 401     | 47      | 5     | 5       | 2       |
|      |       |           |         |       | Perce      | nt of Live l | Births    |         |         |       |         |         |
| 2002 | 10.6  | 10.6      | 13.7    | 12.4  | 12.3       | 20.7         | 8.5       | 8.5     | 5.6     | 2.4   | 2.4     | *       |
| 2001 | 10.9  | 10.9      | 15.0    | 12.8  | 12.8       | 21.8         | 8.2       | 8.3     | 7.8     | 2.4   | 2.4     | *       |
| 2000 | 10.4  | 10.4      | 11.6    | 12.7  | 12.7       | 20.4         | 6.9       | 7.0     | 2.6     | 2.3   | 2.3     | *       |
| 1999 | 10.6  | 10.6      | 13.3    | 12.7  | 12.7       | 21.7         | 7.5       | 7.6     | 4.4     | *     | *       | *       |
| 1998 | 11.4  | 11.4      | 13.8    | 13.6  | 13.6       | 23.1         | 7.6       | 7.7     | 3.7     | 3.7   | 3.7     | *       |
| 1997 | 12.5  | 12.5      | 13.9    | 15.0  | 15.0       | 24.8         | 8.2       | 8.3     | 3.2     | 3.4   | 3.4     | *       |
| 1996 | 12.9  | 13.0      | 12.3    | 15.6  | 15.6       | 22.0         | 8.2       | 8.3     | 3.2     | 3.5   | 3.5     | *       |
| 1995 | 13.8  | 13.9      | 15.5    | 16.5  | 16.5       | 28.7         | 9.0       | 9.1     | 3.1     | 3.6   | 3.6     | *       |
| 1994 | 14.7  | 14.8      | 14.7    | 17.5  | 17.6       | 25.7         | 9.6       | 9.7     | 3.1     | *     | *       | *       |
| 1993 | 16.3  | 16.4      | 15.2    | 19.2  | 19.2       | 27.5         | 11.4      | 11.5    | 4.1     | *     | *       | *       |
| 1992 | 17.9  | 18.0      | 18.5    | 20.7  | 20.7       | 33.2         | 12.6      | 12.7    | 3.6     | *     | *       | *       |
| 1991 | 19.0  | 19.1      | 18.9    | 21.2  | 21.2       | 31.4         | 15.0      | 15.1    | 5.6     | *     | *       | *       |
| 1990 | 19.1  | 19.1      | 21.6    | 21.0  | 21.0       | 34.0         | 15.5      | 15.7    | 8.0     | *     | *       | *       |

<sup>\*</sup> Percentage not calculated when the number of births is less than 10

Table 5. Number and Percent of Women with Live Births Who Drank Alcohol During Pregnancy by Race and Age, Davidson County, TN, 1990 - 2002

|      |       |           |         |       |         | y, 11 <b>1</b> , 1330 |        |         |         |       |         |         |
|------|-------|-----------|---------|-------|---------|-----------------------|--------|---------|---------|-------|---------|---------|
|      |       | All Races |         |       | White   |                       |        | Black   |         |       | Other   |         |
| Year | Total | 15 - 44   | 15 - 19 | Total | 15 - 44 | 15 - 19               | Total  | 15 - 44 | 15 - 19 | Total | 15 - 44 | 15 - 19 |
|      |       |           |         |       |         | Number                |        |         |         |       |         |         |
| 2002 | 55    | 55        | 0       | 33    | 33      | 0                     | 19     | 19      | 0       | 3     | 3       | 0       |
| 2001 | 53    | 53        | 1       | 30    | 30      | 1                     | 23     | 23      | 0       | 0     | 0       | 0       |
| 2000 | 50    | 50        | 3       | 27    | 27      | 2                     | 22     | 22      | 1       | 1     | 1       | 0       |
| 1999 | 73    | 71        | 5       | 45    | 43      | 4                     | 28     | 28      | 1       | 0     | 0       | 0       |
| 1998 | 88    | 88        | 9       | 52    | 52      | 6                     | 35     | 35      | 3       | 1     | 1       | 0       |
| 1997 | 100   | 100       | 5       | 57    | 57      | 4                     | 43     | 43      | 1       | 0     | 0       | 0       |
| 1996 | 85    | 85        | 4       | 54    | 54      | 1                     | 31     | 31      | 3       | 0     | 0       | 0       |
| 1995 | 64    | 64        | 2       | 38    | 38      | 2                     | 26     | 26      | 0       | 0     | 0       | 0       |
| 1994 | 65    | 65        | 2       | 34    | 34      | 1                     | 31     | 31      | 1       | 0     | 0       | 0       |
| 1993 | 70    | 70        | 4       | 42    | 42      | 2                     | 28     | 28      | 2       | 0     | 0       | 0       |
| 1992 | 75    | 75        | 5       | 43    | 43      | 1                     | 31     | 31      | 4       | 1     | 1       | 0       |
| 1991 | 93    | 93        | 6       | 51    | 51      | 4                     | 41     | 41      | 2       | 1     | 1       | 0       |
| 1990 | 116   | 116       | 15      | 80    | 80      | 12                    | 35     | 35      | 3       | 1     | 1       | 0       |
|      |       |           |         |       | Perce   | nt of Live I          | Births |         |         |       |         |         |
| 2002 | 0.6   | 0.6       | *       | 0.6   | 0.6     | *                     | 0.7    | 0.7     | *       | *     | *       | *       |
| 2001 | 0.6   | 0.6       | *       | 0.5   | 0.5     | *                     | 0.9    | 0.9     | *       | *     | *       | *       |
| 2000 | 0.6   | 0.6       | *       | 0.5   | 0.5     | *                     | 0.8    | 0.8     | *       | *     | *       | *       |
| 1999 | 0.9   | 0.8       | *       | 0.8   | 0.8     | *                     | 1.1    | 1.1     | *       | *     | *       | *       |
| 1998 | 1.0   | 1.0       | *       | 0.9   | 0.9     | *                     | 1.4    | 1.4     | *       | *     | *       | *       |
| 1997 | 1.2   | 1.2       | *       | 1.0   | 1.0     | *                     | 1.7    | 1.7     | *       | *     | *       | *       |
| 1996 | 1.0   | 1.0       | *       | 1.0   | 1.0     | *                     | 1.3    | 1.3     | *       | *     | *       | *       |
| 1995 | 0.8   | 0.8       | *       | 0.7   | 0.7     | *                     | 1.0    | 1.1     | *       | *     | *       | *       |
| 1994 | 0.8   | 0.8       | *       | 0.6   | 0.6     | *                     | 1.3    | 1.3     | *       | *     | *       | *       |
| 1993 | 0.8   | 0.8       | *       | 0.8   | 0.8     | *                     | 1.1    | 1.1     | *       | *     | *       | *       |
| 1992 | 0.9   | 0.9       | *       | 0.8   | 0.8     | *                     | 1.2    | 1.2     | *       | *     | *       | *       |
| 1991 | 1.1   | 1.1       | *       | 0.9   | 0.9     | *                     | 1.5    | 1.5     | *       | *     | *       | *       |
| 1990 | 1.3   | 1.3       | 1.2     | 1.3   | 1.3     | 1.8                   | 1.4    | 1.4     | *       | *     | *       | *       |

<sup>\*</sup> Percentage not calculated when the number of births is less than 10

Table 6a. Number and Percent of Women with Live Births Who Entered Prenatal Care During the First Trimester by Race and Age, Davidson County, TN, 1990 - 2002

|      |       |         | All F   | Races   |         | v            |       |         | Wh      | ite     |         |         |
|------|-------|---------|---------|---------|---------|--------------|-------|---------|---------|---------|---------|---------|
| Year | Total | 15 - 44 | 10 - 19 | 10 - 17 | 10 - 14 | 15 - 19      | Total | 15 - 44 | 10 - 19 | 10 - 17 | 10 - 14 | 15 - 19 |
|      |       |         |         |         |         | Number       |       |         |         |         |         |         |
| 2002 | 7,411 | 7,382   | 734     | 224     | 13      | 721          | 4,875 | 4,858   | 383     | 102     | 5       | 378     |
| 2001 | 7,410 | 7,392   | 794     | 239     | 7       | 787          | 4,926 | 4,915   | 428     | 122     | 2       | 426     |
| 2000 | 7,576 | 7,551   | 854     | 305     | 15      | 839          | 4,932 | 4,917   | 419     | 126     | 7       | 412     |
| 1999 | 7,391 | 7,363   | 961     | 319     | 22      | 939          | 4,909 | 4,896   | 490     | 147     | 8       | 482     |
| 1998 | 7,515 | 7,484   | 991     | 361     | 20      | 971          | 5,067 | 5,052   | 506     | 169     | 7       | 499     |
| 1997 | 7,397 | 7,375   | 926     | 372     | 14      | 912          | 4,984 | 4,976   | 445     | 150     | 3       | 442     |
| 1996 | 7,301 | 7,255   | 1,005   | 394     | 36      | 969          | 5,031 | 4,997   | 477     | 221     | 10      | 467     |
| 1995 | 7,249 | 7,219   | 901     | 351     | 25      | 876          | 4,938 | 4,932   | 439     | 210     | 2       | 437     |
| 1994 | 7,092 | 7,055   | 938     | 375     | 28      | 910          | 4,978 | 4,966   | 500     | 194     | 5       | 495     |
| 1993 | 7,230 | 7,209   | 946     | 384     | 19      | 927          | 5,008 | 5,001   | 470     | 224     | 5       | 465     |
| 1992 | 7,140 | 7,115   | 882     | 367     | 23      | 859          | 5,120 | 5,114   | 490     | 191     | 5       | 485     |
| 1991 | 7,170 | 7,149   | 871     | 328     | 20      | 851          | 5,121 | 5,116   | 483     | 162     | 4       | 479     |
| 1990 | 7,221 | 7,202   | 842     | 292     | 16      | 826          | 5,218 | 5,215   | 452     | 158     | 1       | 451     |
|      |       |         |         |         |         | nt of Live B |       |         |         |         |         |         |
| 2002 | 84.4  | 84.4    | 71.9    | 68.1    | 68.4    | 72.0         | 86.7  | 86.7    | 72.4    | 64.6    | *       | 72.3    |
| 2001 | 84.5  | 84.6    | 74.8    | 68.1    | *       | 75.5         | 86.8  | 86.8    | 78.4    | 71.3    | *       | 78.6    |
| 2000 | 84.4  | 84.4    | 74.5    | 70.3    | 62.5    | 74.7         | 86.1  | 86.1    | 74.0    | 68.5    | *       | 73.7    |
| 1999 | 86.7  | 86.8    | 81.8    | 74.5    | 71.0    | 82.1         | 88.9  | 89.0    | 81.5    | 75.0    | *       | 81.7    |
| 1998 | 88.4  | 88.5    | 79.3    | 74.1    | 55.6    | 80.0         | 90.5  | 90.6    | 79.9    | 75.8    | *       | 80.5    |
| 1997 | 88.5  | 88.5    | 78.4    | 77.7    | 73.7    | 78.5         | 90.4  | 90.4    | 78.3    | 75.4    | *       | 78.4    |
| 1996 | 88.6  | 88.6    | 78.8    | 74.6    | 73.5    | 79.0         | 91.5  | 91.2    | 78.5    | 101.4   | 83.3    | 78.4    |
| 1995 | 88.2  | 88.3    | 75.9    | 70.9    | 65.8    | 76.2         | 90.8  | 90.9    | 78.0    | 109.9   | *       | 78.5    |
| 1994 | 86.8  | 86.9    | 74.9    | 72.1    | 63.6    | 75.3         | 90.2  | 90.3    | 79.1    | 84.0    | *       | 79.5    |
| 1993 | 86.8  | 86.9    | 73.8    | 69.3    | 54.3    | 74.4         | 91.0  | 91.0    | 77.9    | 101.8   | *       | 78.0    |
| 1992 | 84.6  | 84.8    | 70.8    | 68.5    | 54.8    | 71.4         | 89.6  | 89.7    | 79.2    | 83.0    | *       | 79.6    |
| 1991 | 82.9  | 83.0    | 65.1    | 60.1    | 62.5    | 65.2         | 88.0  | 88.0    | 70.6    | 67.5    | *       | 70.9    |
| 1990 | 82.9  | 83.1    | 64.4    | 59.5    | 48.5    | 64.8         | 87.5  | 87.6    | 67.3    | 75.2    | *       | 67.6    |

<sup>\*</sup>Percentage not calculated when number of births is less than 10

Table 6b. Number and Percent of Women with Live Births Who Entered Prenatal Care During the First Trimester by Race and Age, Davidson County, TN, 1990 - 2002

|      |       |         | Bla     |         | Davidson | <b>V</b> .   |        |         | Otl     | her     |         |         |
|------|-------|---------|---------|---------|----------|--------------|--------|---------|---------|---------|---------|---------|
| Year | Total | 15 - 44 | 10 - 19 | 10 - 17 | 10 - 14  | 15 - 19      | Total  | 15 - 44 | 10 - 19 | 10 - 17 | 10 - 14 | 15 - 19 |
|      |       |         |         |         |          | Number       |        |         |         |         |         |         |
| 2002 | 2,124 | 2,113   | 336     | 120     | 8        | 328          | 410    | 409     | 15      | 2       | 0       | 15      |
| 2001 | 2,137 | 2,131   | 343     | 113     | 5        | 338          | 347    | 346     | 23      | 4       | 0       | 23      |
| 2000 | 2,271 | 2,261   | 418     | 173     | 8        | 410          | 373    | 373     | 17      | 6       | 0       | 17      |
| 1999 | 2,175 | 2,160   | 451     | 165     | 14       | 437          | 307    | 307     | 20      | 7       | 0       | 20      |
| 1998 | 2,158 | 2,142   | 473     | 189     | 13       | 460          | 290    | 290     | 12      | 3       | 0       | 12      |
| 1997 | 2,114 | 2,101   | 456     | 207     | 11       | 445          | 299    | 298     | 25      | 15      | 0       | 25      |
| 1996 | 2,004 | 1,977   | 505     | 221     | 25       | 480          | 284    | 281     | 23      | 13      | 1       | 22      |
| 1995 | 2,081 | 2,058   | 451     | 210     | 23       | 428          | 230    | 229     | 11      | 6       | 0       | 11      |
| 1994 | 1,926 | 1,902   | 432     | 194     | 23       | 409          | 188    | 187     | 6       | 2       | 0       | 6       |
| 1993 | 2,066 | 2,052   | 469     | 224     | 14       | 455          | 156    | 156     | 7       | 1       | 0       | 7       |
| 1992 | 1,892 | 1,876   | 386     | 191     | 16       | 370          | 128    | 125     | 6       | 3       | 2       | 4       |
| 1991 | 1,944 | 1,928   | 374     | 162     | 16       | 358          | 105    | 105     | 14      | 2       | 0       | 14      |
| 1990 | 1,880 | 1,864   | 384     | 158     | 15       | 369          | 123    | 123     | 6       | 3       | 0       | 6       |
|      |       |         |         |         | Percei   | nt of Live B | irths* |         |         |         |         |         |
| 2002 | 80.9  | 81.1    | 72.7    | 72.7    | *        | 73.1         | 77.1   | 77.0    | 50.0    | *       | *       | 50.0    |
| 2001 | 81.0  | 81.2    | 71.9    | 66.5    | *        | 72.8         | 76.1   | 76.2    | 60.5    | *       | *       | 62.2    |
| 2000 | 82.1  | 82.3    | 75.7    | 72.7    | *        | 76.6         | 76.6   | 76.6    | 58.6    | *       | *       | 58.6    |
| 1999 | 83.6  | 83.7    | 82.4    | 74.7    | 70.0     | 82.9         | 76.4   | 76.6    | 74.1    | *       | *       | 74.1    |
| 1998 | 84.6  | 84.8    | 79.5    | 73.8    | 56.5     | 80.4         | 82.2   | 82.2    | 57.1    | *       | *       | 57.1    |
| 1997 | 84.7  | 84.7    | 78.6    | 78.7    | 73.3     | 78.8         | 85.7   | 85.6    | 75.8    | 88.2    | *       | 75.8    |
| 1996 | 83.5  | 83.7    | 79.7    | 75.7    | 71.4     | 80.1         | 82.3   | 82.4    | 69.7    | 72.2    | *       | 71.0    |
| 1995 | 83.1  | 83.2    | 74.1    | 70.7    | 71.9     | 74.2         | 83.6   | 83.6    | 73.3    | *       | *       | 73.3    |
| 1994 | 79.3  | 79.5    | 70.9    | 68.1    | 65.7     | 71.3         | 83.9   | 84.6    | *       | *       | *       | *       |
| 1993 | 78.0  | 78.3    | 70.3    | 67.5    | 50.0     | 71.2         | 86.2   | 86.2    | *       | *       | *       | *       |
| 1992 | 73.9  | 74.2    | 63.6    | 63.7    | 53.3     | 64.1         | 77.6   | 77.6    | *       | *       | *       | *       |
| 1991 | 72.4  | 72.4    | 59.2    | 54.0    | 66.7     | 58.9         | 76.1   | 76.1    | 66.7    | *       | *       | 66.7    |
| 1990 | 72.5  | 72.8    | 62.0    | 58.1    | 53.6     | 62.4         | 80.9   | 80.9    | *       | *       | *       | *       |

<sup>\*</sup>Percentage not calculated when number of births is less than 10

Table 7a. Number and Percent of Women with Live Births Who Received No Prenatal Care or Entered Care During the Third
Trimester by Race and Age, Davidson County, TN, 1990 - 2002

|      |       |         | All R   | laces   |         |              |       |         | Wh      | ite     |         |         |
|------|-------|---------|---------|---------|---------|--------------|-------|---------|---------|---------|---------|---------|
| Year | Total | 15 - 44 | 10 - 19 | 10 - 17 | 10 - 14 | 15 - 19      | Total | 15 - 44 | 10 - 19 | 10 - 17 | 10 - 14 | 15 - 19 |
|      |       |         |         |         |         | Number       |       |         |         |         |         |         |
| 2002 | 233   | 231     | 51      | 23      | 2       | 49           | 125   | 125     | 31      | 13      | 0       | 31      |
| 2001 | 253   | 250     | 43      | 18      | 3       | 40           | 121   | 121     | 17      | 5       | 0       | 17      |
| 2000 | 346   | 343     | 77      | 34      | 3       | 74           | 172   | 172     | 28      | 11      | 0       | 28      |
| 1999 | 236   | 231     | 66      | 33      | 5       | 61           | 109   | 107     | 25      | 12      | 2       | 23      |
| 1998 | 269   | 266     | 43      | 20      | 2       | 41           | 123   | 121     | 28      | 12      | 2       | 26      |
| 1997 | 246   | 246     | 58      | 32      | 0       | 58           | 113   | 113     | 27      | 16      | 0       | 27      |
| 1996 | 244   | 243     | 63      | 34      | 1       | 62           | 103   | 103     | 23      | 9       | 0       | 23      |
| 1995 | 231   | 228     | 77      | 44      | 3       | 74           | 97    | 95      | 30      | 15      | 2       | 28      |
| 1994 | 251   | 247     | 74      | 33      | 4       | 70           | 120   | 119     | 33      | 11      | 1       | 32      |
| 1993 | 201   | 198     | 50      | 21      | 3       | 47           | 79    | 79      | 16      | 6       | 0       | 16      |
| 1992 | 271   | 267     | 78      | 29      | 4       | 74           | 126   | 125     | 34      | 13      | 1       | 33      |
| 1991 | 305   | 299     | 88      | 46      | 6       | 82           | 129   | 126     | 41      | 18      | 3       | 38      |
| 1990 | 301   | 295     | 96      | 46      | 6       | 90           | 144   | 143     | 43      | 17      | 1       | 42      |
|      |       |         |         |         |         | nt of Live B |       |         |         |         |         |         |
| 2002 | 2.7   | 2.6     | 5.0     | 7.0     | *       | 4.9          | 2.2   | 2.2     | 5.9     | 8.2     | *       | 5.9     |
| 2001 | 2.9   | 2.9     | 4.1     | 5.1     | *       | 3.8          | 2.1   | 2.1     | 3.1     | *       | *       | 3.1     |
| 2000 | 3.9   | 3.8     | 6.7     | 7.8     | *       | 6.6          | 3.0   | 3.0     | 4.9     | 6.0     | *       | 5.0     |
| 1999 | 2.8   | 2.7     | 5.6     | 7.7     | *       | 5.3          | 2.0   | 1.9     | 4.2     | 6.1     | *       | 3.9     |
| 1998 | 3.2   | 3.1     | 3.4     | 4.1     | *       | 3.4          | 2.2   | 2.2     | 4.4     | 5.4     | *       | 4.2     |
| 1997 | 2.9   | 3.0     | 4.9     | 6.7     | *       | 5.0          | 2.0   | 2.1     | 4.8     | 8.0     | *       | 4.8     |
| 1996 | 3.0   | 3.0     | 4.9     | 6.4     | *       | 5.1          | 1.9   | 1.9     | 3.8     | *       | *       | 3.9     |
| 1995 | 2.8   | 2.8     | 6.5     | 8.9     | *       | 6.4          | 1.8   | 1.8     | 5.3     | 7.9     | *       | 5.0     |
| 1994 | 3.1   | 3.0     | 5.9     | 6.3     | *       | 5.8          | 2.2   | 2.2     | 5.2     | 4.8     | *       | 5.1     |
| 1993 | 2.4   | 2.4     | 3.9     | 3.8     | *       | 3.8          | 1.4   | 1.4     | 2.7     | *       | *       | 2.7     |
| 1992 | 3.2   | 3.2     | 6.3     | 5.4     | *       | 6.2          | 2.2   | 2.2     | 5.5     | 5.7     | *       | 5.4     |
| 1991 | 3.5   | 3.5     | 6.6     | 8.4     | *       | 6.3          | 2.2   | 2.2     | 6.0     | 7.5     | *       | 5.6     |
| 1990 | 3.5   | 3.4     | 7.3     | 9.4     | *       | 7.1          | 2.4   | 2.4     | 6.4     | 8.1     | *       | 6.3     |

<sup>\*</sup>Percentage not calculated when number of births is less than 10

Table 7b. Number and Percent of Women with Live Births Who Received No Prenatal Care or Entered Care During the Third
Trimester by Race and Age, Davidson County, TN, 1990 - 2002

|      |       |         | Bla     | ıck     |         |              |       |         | Otl     | her     |         |         |
|------|-------|---------|---------|---------|---------|--------------|-------|---------|---------|---------|---------|---------|
| Year | Total | 15 - 44 | 10 - 19 | 10 - 17 | 10 - 14 | 15 - 19      | Total | 15 - 44 | 10 - 19 | 10 - 17 | 10 - 14 | 15 - 19 |
|      |       |         |         |         |         | Number       |       |         |         |         |         |         |
| 2002 | 90    | 88      | 19      | 10      | 2       | 17           | 18    | 18      | 1       | 0       | 0       | 1       |
| 2001 | 114   | 112     | 22      | 10      | 2       | 20           | 18    | 17      | 4       | 3       | 1       | 3       |
| 2000 | 151   | 148     | 44      | 20      | 3       | 41           | 23    | 23      | 5       | 3       | 0       | 5       |
| 1999 | 114   | 111     | 38      | 19      | 3       | 35           | 13    | 13      | 3       | 2       | 0       | 3       |
| 1998 | 130   | 129     | 11      | 6       | 0       | 11           | 16    | 16      | 4       | 2       | 0       | 4       |
| 1997 | 122   | 122     | 30      | 16      | 0       | 30           | 11    | 11      | 1       | 0       | 0       | 1       |
| 1996 | 124   | 124     | 35      | 21      | 0       | 35           | 17    | 16      | 5       | 4       | 1       | 4       |
| 1995 | 125   | 124     | 47      | 29      | 1       | 46           | 9     | 9       | 0       | 0       | 0       | 0       |
| 1994 | 126   | 123     | 39      | 22      | 3       | 36           | 5     | 5       | 2       | 0       | 0       | 2       |
| 1993 | 113   | 110     | 34      | 15      | 3       | 31           | 9     | 9       | 0       | 0       | 0       | 0       |
| 1992 | 141   | 138     | 43      | 16      | 3       | 40           | 4     | 4       | 1       | 0       | 0       | 1       |
| 1991 | 170   | 167     | 47      | 26      | 3       | 44           | 6     | 6       | 0       | 0       | 0       | 0       |
| 1990 | 150   | 145     | 49      | 27      | 5       | 44           | 7     | 7       | 4       | 2       | 0       | 4       |
|      |       |         |         |         |         | nt of Live B |       |         |         |         |         |         |
| 2002 | 3.4   | 3.4     | 4.1     | 6.1     | *       | 3.8          | 3.4   | 3.4     | *       | *       | *       | *       |
| 2001 | 4.3   | 4.3     | 4.6     | 5.9     | *       | 4.3          | 3.9   | 3.7     | *       | *       | *       | *       |
| 2000 | 5.5   | 5.4     | 8.0     | 8.4     | *       | 7.7          | 4.7   | 4.7     | *       | *       | *       | *       |
| 1999 | 4.4   | 4.3     | 6.9     | 8.6     | *       | 6.6          | 3.2   | 3.2     | *       | *       | *       | *       |
| 1998 | 5.1   | 5.1     | 1.8     | *       | *       | 1.9          | 4.5   | 4.5     | *       | *       | *       | *       |
| 1997 | 4.9   | 4.9     | 5.2     | 6.1     | *       | 5.3          | 3.2   | 3.2     | *       | *       | *       | *       |
| 1996 | 5.2   | 5.2     | 5.5     | 7.2     | *       | 5.8          | 4.9   | 4.7     | *       | *       | *       | *       |
| 1995 | 5.0   | 5.0     | 7.7     | 9.8     | *       | 8.0          | *     | *       | *       | *       | *       | *       |
| 1994 | 5.2   | 5.1     | 6.4     | 7.7     | *       | 6.3          | *     | *       | *       | *       | *       | *       |
| 1993 | 4.3   | 4.2     | 5.1     | 4.5     | *       | 4.9          | *     | *       | *       | *       | *       | *       |
| 1992 | 5.5   | 5.5     | 7.1     | 5.3     | *       | 6.9          | *     | *       | *       | *       | *       | *       |
| 1991 | 6.3   | 6.3     | 7.4     | 8.7     | *       | 7.2          | *     | *       | *       | *       | *       | *       |
| 1990 | 5.8   | 5.7     | 7.9     | 9.9     | *       | 7.4          | *     | *       | *       | *       | *       | *       |

<sup>\*</sup>Percentage not calculated when number of births is less than 10

Table 8a. Number and Percent of Low Birthweight\* Live Births by Race and Age,
Davidson County, TN, 1990 - 2002

|      |       |         | All Races |         | -           | White   |         |         |         |         |  |  |  |
|------|-------|---------|-----------|---------|-------------|---------|---------|---------|---------|---------|--|--|--|
| Year | Total | 15 - 44 | 10 - 19   | 10 - 17 | 15 - 19     | Total   | 15 - 44 | 10 - 19 | 10 - 17 | 15 - 19 |  |  |  |
|      |       |         |           |         | Number      |         |         |         |         |         |  |  |  |
| 2002 | 799   | 793     | 105       | 28      | 102         | 393     | 390     | 41      | 8       | 40      |  |  |  |
| 2001 | 806   | 796     | 117       | 40      | 112         | 426     | 421     | 52      | 18      | 51      |  |  |  |
| 2000 | 821   | 811     | 129       | 50      | 125         | 388     | 384     | 27      | 16      | 57      |  |  |  |
| 1999 | 821   | 815     | 133       | 53      | 128         | 432     | 430     | 61      | 26      | 59      |  |  |  |
| 1998 | 830   | 821     | 170       | 69      | 162         | 409     | 408     | 67      | 22      | 66      |  |  |  |
| 1997 | 798   | 791     | 151       | 61      | 147         | 403     | 403     | 67      | 26      | 67      |  |  |  |
| 1996 | 765   | 759     | 144       | 64      | 138         | 400     | 399     | 54      | 23      | 53      |  |  |  |
| 1995 | 762   | 758     | 111       | 59      | 107         | 388     | 388     | 37      | 19      | 37      |  |  |  |
| 1994 | 793   | 780     | 158       | 79      | 148         | 427     | 423     | 74      | 35      | 72      |  |  |  |
| 1993 | 787   | 784     | 144       | 68      | 141         | 387     | 387     | 57      | 21      | 57      |  |  |  |
| 1992 | 752   | 745     | 139       | 72      | 132         | 379     | 376     | 64      | 34      | 61      |  |  |  |
| 1991 | 764   | 758     | 125       | 60      | 119         | 373     | 372     | 50      | 22      | 49      |  |  |  |
| 1990 | 787   | 783     | 164       | 54      | 161         | 410     | 410     | 63      | 10      | 63      |  |  |  |
|      |       |         |           | Percen  | t of Live B | irths** |         |         |         |         |  |  |  |
| 2002 | 9.1   | 9.1     | 10.3      | 8.5     | 10.2        | 7.0     | 7.0     | 7.8     | **      | 7.6     |  |  |  |
| 2001 | 9.2   | 9.1     | 11.0      | 11.4    | 10.7        | 7.5     | 7.4     | 9.5     | 10.5    | 9.4     |  |  |  |
| 2000 | 9.1   | 9.1     | 11.2      | 11.5    | 11.1        | 6.8     | 6.7     | 10.1    | 8.7     | 10.2    |  |  |  |
| 1999 | 9.6   | 9.6     | 11.3      | 12.4    | 11.2        | 7.8     | 7.8     | 10.1    | 13.3    | 10.0    |  |  |  |
| 1998 | 9.8   | 9.7     | 13.6      | 14.2    | 13.4        | 7.3     | 7.3     | 10.6    | 9.9     | 10.6    |  |  |  |
| 1997 | 9.5   | 9.5     | 12.8      | 12.7    | 12.7        | 7.3     | 7.3     | 11.8    | 13.1    | 11.9    |  |  |  |
| 1996 | 9.3   | 9.3     | 11.3      | 12.1    | 11.3        | 7.3     | 7.3     | 8.6     | 10.6    | 8.9     |  |  |  |
| 1995 | 9.3   | 9.3     | 9.4       | 11.9    | 9.3         | 7.1     | 7.1     | 6.6     | 9.9     | 6.6     |  |  |  |
| 1994 | 9.7   | 9.6     | 12.6      | 15.2    | 12.2        | 7.7     | 7.7     | 11.7    | 15.2    | 11.6    |  |  |  |
| 1993 | 9.4   | 9.5     | 11.2      | 12.3    | 11.3        | 7.0     | 7.0     | 9.5     | 9.5     | 9.6     |  |  |  |
| 1992 | 8.9   | 8.9     | 11.2      | 13.4    | 11.0        | 6.6     | 6.6     | 8.9     | 14.8    | 10.0    |  |  |  |
| 1991 | 8.8   | 8.8     | 9.3       | 11.0    | 9.1         | 6.4     | 6.4     | 7.3     | 9.2     | 7.2     |  |  |  |
| 1990 | 9.0   | 9.0     | 12.5      | 11.0    | 12.6        | 6.9     | 6.9     | 9.0     | 4.8     | 9.4     |  |  |  |

<sup>\*</sup>Less than 2,500 grams

<sup>\*\*</sup>Percentage not calculated when the number of births is less than 10

Table 8b. Number and Percent of Low Birthweight\* Live Births by Race and Age,
Davidson County, TN, 1990 - 2002

|        |       |         | Black   | aviason e | <b>J</b> .  | Other   |         |         |         |         |  |  |  |
|--------|-------|---------|---------|-----------|-------------|---------|---------|---------|---------|---------|--|--|--|
| Year   | Total | 15 - 44 | 10 - 19 | 10 - 17   | 15 - 19     | Total   | 15 - 44 | 10 - 19 | 10 - 17 | 15 - 19 |  |  |  |
| Number |       |         |         |           |             |         |         |         |         |         |  |  |  |
| 2002   | 359   | 356     | 62      | 19        | 60          | 47      | 47      | 2       | 1       | 2       |  |  |  |
| 2001   | 345   | 340     | 62      | 21        | 58          | 35      | 35      | 3       | 1       | 3       |  |  |  |
| 2000   | 397   | 391     | 70      | 32        | 66          | 36      | 36      | 2       | 2       | 2       |  |  |  |
| 1999   | 359   | 355     | 72      | 27        | 69          | 30      | 30      | 0       | 0       | 0       |  |  |  |
| 1998   | 388   | 380     | 101     | 47        | 94          | 33      | 33      | 2       | 0       | 2       |  |  |  |
| 1997   | 371   | 365     | 82      | 34        | 78          | 24      | 23      | 2       | 1       | 2       |  |  |  |
| 1996   | 327   | 323     | 88      | 40        | 84          | 38      | 37      | 2       | 1       | 1       |  |  |  |
| 1995   | 348   | 344     | 41      | 39        | 37          | 26      | 26      | 1       | 1       | 1       |  |  |  |
| 1994   | 350   | 341     | 80      | 43        | 72          | 16      | 16      | 3       | 1       | 3       |  |  |  |
| 1993   | 386   | 383     | 60      | 47        | 57          | 14      | 14      | 0       | 0       | 0       |  |  |  |
| 1992   | 358   | 354     | 65      | 38        | 61          | 15      | 15      | 2       | 0       | 2       |  |  |  |
| 1991   | 381   | 376     | 54      | 38        | 49          | 10      | 10      | 0       | 0       | 0       |  |  |  |
| 1990   | 358   | 354     | 66      | 44        | 63          | 19      | 19      | 3       | 1       | 3       |  |  |  |
|        |       |         |         | Percen    | t of Live B | irths** |         |         |         |         |  |  |  |
| 2002   | 13.7  | 13.7    | 13.4    | 11.5      | 13.4        | 8.8     | 8.9     | **      | **      | **      |  |  |  |
| 2001   | 13.1  | 13.0    | 13.0    | 12.4      | 12.5        | 7.7     | 7.7     | **      | **      | **      |  |  |  |
| 2000   | 14.3  | 14.2    | 12.7    | 13.4      | 12.3        | 7.4     | 7.4     | **      | **      | **      |  |  |  |
| 1999   | 13.8  | 13.8    | 13.2    | 12.2      | 13.1        | 7.5     | 7.5     | **      | **      | **      |  |  |  |
| 1998   | 15.2  | 15.0    | 17.0    | 18.4      | 16.4        | 9.3     | 9.3     | **      | **      | **      |  |  |  |
| 1997   | 14.9  | 14.7    | 14.1    | 12.9      | 13.8        | 6.9     | 6.6     | **      | **      | **      |  |  |  |
| 1996   | 13.6  | 13.7    | 13.9    | 13.7      | 14.0        | 11.0    | 10.9    | **      | **      | **      |  |  |  |
| 1995   | 13.9  | 13.9    | 6.7     | 13.1      | 6.4         | 9.5     | 9.5     | **      | **      | **      |  |  |  |
| 1994   | 14.4  | 14.2    | 13.1    | 15.1      | 12.5        | 7.1     | 7.2     | **      | **      | **      |  |  |  |
| 1993   | 14.6  | 14.6    | 9.0     | 14.2      | 8.9         | 7.7     | 7.7     | **      | **      | **      |  |  |  |
| 1992   | 14.0  | 14.0    | 10.7    | 12.7      | 10.6        | 9.1     | 9.3     | **      | **      | **      |  |  |  |
| 1991   | 14.2  | 14.1    | 8.5     | 12.7      | 8.1         | 7.2     | 7.2     | **      | **      | **      |  |  |  |
| 1990   | 13.8  | 13.8    | 10.7    | 16.2      | 10.7        | 12.5    | 12.5    | **      | **      | **      |  |  |  |

<sup>\*</sup>Less than 2,500 grams

<sup>\*\*</sup>Percentage not calculated when the number of births is less than 10

Table 9a. Number and Percent of Women of Preterm\* Live Births by Race and Age, Davidson County, TN, 1990 - 2002

|        | All Races |         |         |         |         |             |         | White   |         |         |         |         |  |  |
|--------|-----------|---------|---------|---------|---------|-------------|---------|---------|---------|---------|---------|---------|--|--|
| Year   | Total     | 15 - 44 | 10 - 19 | 10 - 17 | 10 - 14 | 15 - 19     | Total   | 15 - 44 | 10 - 19 | 10 - 17 | 10 - 14 | 15 - 19 |  |  |
| Number |           |         |         |         |         |             |         |         |         |         |         |         |  |  |
| 2002   | 846       | 838     | 93      | 31      | 3       | 90          | 484     | 480     | 38      | 9       | 1       | 37      |  |  |
| 2001   | 1,059     | 1,048   | 128     | 45      | 6       | 122         | 609     | 604     | 63      | 23      | 1       | 62      |  |  |
| 2000   | 1,054     | 1,046   | 149     | 61      | 4       | 145         | 549     | 544     | 55      | 20      | 1       | 54      |  |  |
| 1999   | 1,076     | 1,067   | 159     | 66      | 9       | 150         | 606     | 604     | 67      | 26      | 2       | 65      |  |  |
| 1998   | 951       | 943     | 161     | 68      | 8       | 153         | 516     | 516     | 63      | 20      | 0       | 63      |  |  |
| 1997   | 985       | 977     | 168     | 72      | 5       | 163         | 573     | 571     | 67      | 29      | 0       | 67      |  |  |
| 1996   | 927       | 918     | 155     | 70      | 8       | 147         | 537     | 535     | 63      | 26      | 1       | 62      |  |  |
| 1995   | 865       | 859     | 125     | 62      | 7       | 118         | 501     | 501     | 43      | 19      | 0       | 43      |  |  |
| 1994   | 870       | 862     | 158     | 70      | 6       | 152         | 518     | 515     | 77      | 32      | 1       | 76      |  |  |
| 1993   | 927       | 922     | 157     | 69      | 4       | 153         | 522     | 521     | 63      | 20      | 0       | 63      |  |  |
| 1992   | 854       | 848     | 158     | 76      | 6       | 152         | 496     | 492     | 77      | 33      | 4       | 73      |  |  |
| 1991   | 871       | 863     | 134     | 68      | 8       | 126         | 476     | 475     | 59      | 28      | 1       | 58      |  |  |
| 1990   | 1,156     | 1,153   | 176     | 59      | 3       | 173         | 759     | 759     | 77      | 17      | 0       | 77      |  |  |
|        |           |         |         |         | Percen  | t of Live B | irths** |         |         |         |         |         |  |  |
| 2002   | 9.6       | 9.6     | 9.1     | 9.4     | **      | 9.0         | 8.6     | 8.6     | 7.2     | **      | **      | 7.1     |  |  |
| 2001   | 12.1      | 12.0    | 12.1    | 12.8    | **      | 11.7        | 10.7    | 10.7    | 11.5    | 13.5    | **      | 11.4    |  |  |
| 2000   | 11.7      | 11.7    | 13.0    | 14.1    | **      | 12.9        | 9.6     | 9.5     | 9.7     | 10.9    | **      | 9.7     |  |  |
| 1999   | 12.6      | 12.6    | 13.5    | 15.4    | **      | 13.1        | 11.0    | 11.0    | 11.1    | 13.3    | **      | 11.0    |  |  |
| 1998   | 11.2      | 11.2    | 13.1    | 14.3    | **      | 12.8        | 9.2     | 9.3     | 10.1    | 9.1     | **      | 10.3    |  |  |
| 1997   | 11.8      | 11.7    | 14.3    | 15.2    | **      | 14.1        | 10.4    | 10.4    | 11.9    | 14.8    | **      | 12.0    |  |  |
| 1996   | 11.2      | 11.2    | 12.3    | 13.4    | **      | 12.1        | 9.8     | 9.8     | 10.5    | 12.1    | **      | 10.5    |  |  |
| 1995   | 10.5      | 10.5    | 10.9    | 13.1    | **      | 10.6        | 9.2     | 9.2     | 7.9     | 10.4    | **      | 8.0     |  |  |
| 1994   | 10.6      | 10.6    | 12.8    | 13.6    | **      | 12.8        | 9.4     | 9.4     | 12.5    | 14.0    | **      | 12.5    |  |  |
| 1993   | 11.1      | 11.1    | 12.6    | 12.7    | **      | 12.6        | 9.5     | 9.5     | 10.8    | 9.4     | **      | 10.9    |  |  |
| 1992   | 10.1      | 10.1    | 13.1    | 14.6    | **      | 13.1        | 8.7     | 8.6     | 13.2    | 15.1    | **      | 12.7    |  |  |
| 1991   | 10.1      | 10.0    | 10.4    | 12.9    | **      | 10.0        | 8.2     | 8.2     | 9.1     | 12.5    | **      | 9.0     |  |  |
| 1990   | 13.3      | 13.3    | 13.6    | 12.1    | **      | 13.7        | 12.7    | 12.7    | 11.6    | 8.2     | **      | 11.7    |  |  |

<sup>\*</sup>Born prior to 37 complete weeks of gestation

<sup>\*\*</sup>Percentage not calculated when number of births is less than 10

Table 9b. Number and Percent of Women of Preterm\* Live Births by Race and Age, Davidson County, TN, 1990 - 2002

|        | Black |         |         |         |         |              |       | Other   |         |         |         |         |  |  |  |
|--------|-------|---------|---------|---------|---------|--------------|-------|---------|---------|---------|---------|---------|--|--|--|
| Year   | Total | 15 - 44 | 10 - 19 | 10 - 17 | 10 - 14 | 15 - 19      | Total | 15 - 44 | 10 - 19 | 10 - 17 | 10 - 14 | 15 - 19 |  |  |  |
| Number |       |         |         |         |         |              |       |         |         |         |         |         |  |  |  |
| 2002   | 320   | 317     | 54      | 22      | 2       | 52           | 42    | 41      | 1       | 0       | 0       | 1       |  |  |  |
| 2001   | 405   | 400     | 60      | 20      | 4       | 56           | 45    | 44      | 5       | 2       | 1       | 4       |  |  |  |
| 2000   | 465   | 462     | 92      | 40      | 3       | 89           | 40    | 40      | 2       | 1       | 0       | 2       |  |  |  |
| 1999   | 429   | 422     | 89      | 39      | 7       | 82           | 41    | 41      | 3       | 1       | 0       | 3       |  |  |  |
| 1998   | 399   | 391     | 97      | 48      | 8       | 89           | 36    | 36      | 1       | 0       | 0       | 1       |  |  |  |
| 1997   | 384   | 378     | 100     | 43      | 5       | 95           | 28    | 28      | 1       | 0       | 0       | 1       |  |  |  |
| 1996   | 347   | 341     | 88      | 41      | 6       | 82           | 43    | 42      | 4       | 3       | 1       | 3       |  |  |  |
| 1995   | 340   | 334     | 81      | 43      | 7       | 74           | 24    | 24      | 1       | 0       | 0       | 1       |  |  |  |
| 1994   | 335   | 330     | 78      | 36      | 5       | 73           | 17    | 17      | 3       | 2       | 0       | 3       |  |  |  |
| 1993   | 395   | 391     | 93      | 49      | 4       | 89           | 10    | 10      | 1       | 0       | 0       | 1       |  |  |  |
| 1992   | 336   | 334     | 78      | 42      | 2       | 76           | 22    | 22      | 3       | 1       | 0       | 3       |  |  |  |
| 1991   | 386   | 379     | 74      | 39      | 7       | 67           | 9     | 9       | 1       | 1       | 0       | 1       |  |  |  |
| 1990   | 370   | 367     | 97      | 41      | 3       | 94           | 27    | 27      | 2       | 1       | 0       | 2       |  |  |  |
|        |       |         |         |         |         | nt of Live B |       |         |         |         |         |         |  |  |  |
| 2002   | 12.2  | 12.2    | 11.7    | 13.3    | **      | 11.6         | 7.9   | 7.7     | **      | **      | **      | **      |  |  |  |
| 2001   | 15.3  | 15.2    | 12.6    | 11.8    | **      | 12.1         | 9.9   | 9.7     | **      | **      | **      | **      |  |  |  |
| 2000   | 16.8  | 16.8    | 16.7    | 16.8    | **      | 16.6         | 8.2   | 8.2     | **      | **      | **      | **      |  |  |  |
| 1999   | 16.5  | 16.4    | 16.3    | 17.6    | **      | 15.6         | 10.2  | 10.2    | **      | **      | **      | **      |  |  |  |
| 1998   | 15.6  | 15.5    | 16.6    | 19.3    | **      | 15.9         | 10.2  | 10.2    | **      | **      | **      | **      |  |  |  |
| 1997   | 15.4  | 15.2    | 17.3    | 16.5    | **      | 16.9         | 8.0   | 8.0     | **      | **      | **      | **      |  |  |  |
| 1996   | 14.5  | 14.4    | 14.0    | 14.1    | **      | 13.8         | 12.5  | 12.3    | **      | **      | **      | **      |  |  |  |
| 1995   | 13.6  | 13.5    | 13.8    | 15.1    | **      | 13.2         | 8.7   | 8.8     | **      | **      | **      | **      |  |  |  |
| 1994   | 13.8  | 13.8    | 13.0    | 12.7    | **      | 12.9         | 7.6   | 7.7     | **      | **      | **      | **      |  |  |  |
| 1993   | 14.9  | 14.9    | 14.2    | 15.0    | **      | 14.1         | 5.5   | 5.5     | **      | **      | **      | **      |  |  |  |
| 1992   | 13.1  | 13.2    | 13.0    | 14.0    | **      | 13.3         | 13.3  | 13.7    | **      | **      | **      | **      |  |  |  |
| 1991   | 14.4  | 14.2    | 11.9    | 13.1    | **      | 11.2         | **    | **      | **      | **      | **      | **      |  |  |  |
| 1990   | 14.3  | 14.3    | 15.7    | 15.1    | **      | 16.0         | 17.8  | 17.8    | **      | **      | **      | **      |  |  |  |

<sup>\*</sup>Born prior to 37 complete weeks of gestation

<sup>\*\*</sup>Percentage not calculated when number of births is less than 10